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The Rockefeller University

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# THE ROCKEFELLER UNIVERSITY

JANUARY 1973

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## news and notes



*Three from Rockefeller are honored in Stockholm on Nobel Prize day, December 10: Gerald M. Edelman (left) with Crown Prince Carl Gustaf of Sweden; in photograph at right, Stanford Moore (seated at left), and William H. Stein (far right).*

### AAAS Meeting

Professor René J. Dubos presented the B. Y. Morrison Memorial Lecture on the topic, Humanizing the Earth, at the 139th Annual Meeting of the American Association for the Advancement of Science, held December 26-31 in Washington, D.C.

A symposium on Federal R and D and Universities: Impacts of Funding and Policy on Institutional Patterns was arranged and chaired by Rodney W. Nichols, the University's vice president for program planning and development.

Professors Vincent G. Allfrey, Norton D. Zinder, and Edward L. Tatum, and Research Associate Nawin C. Mishra participated in a program on The Role of RNA in Reproduction and Development, which was co-arranged by Sheldon J. Segal, director of the Biomedical Division of the Population Council. Professor Peter R. Marler spoke on Learning and Communication. Professor Michael Cole and Research Associate Sylvia Scribner presented a joint paper on Theoretical Frameworks for the Anthropological Investigation of Formal Learning. Re-

search Associate James A. Anderson coauthored a presentation on Properties of a Neural Model for Memory. Adjunct Assistant Professor Thomas T. Struhsaker reported on Interspecific Studies of Rain-Forest Monkeys in Uganda: the Red Colobus. Postdoctoral Fellow Norton B. Gilula spoke on Development of Cell Junctions.

Eugene H. Kone, public relations associate for Rockefeller University, co-arranged a symposium on Science Reporting Via Television and How Can It Be Improved.

### Colleges To Be Visited

The Office of the Dean has announced that The Rockefeller University Visiting Lecturers program, begun as an experiment a year ago, has been expanded for the period January 1973 through May 1974. Fourteen senior faculty members, as compared with nine last year, will be visiting a selected group of undergraduate institutions to lecture and consult with students interested in opportunities for graduate study and research at Rockefeller.

Those continuing in the program are Professors Purnell W. Choppin,

### Award to de Duve

Professor Christian de Duve has been awarded the 1973 Dr. H. P. Heineken Prize by the Royal Netherlands Academy of Arts and Sciences. The prize, which is in the amount of 100,000 Dutch guilders (about \$30,000), is presented every three years "... to the scientist who has made the most important contributions in the field of biochemistry and biophysics." Prince Claus will present the award to Dr. de Duve on April 28 in Amsterdam.

Donald R. Griffin, Nicola N. Khuri, Richard M. Krause, David J. L. Luck, Edward Reich, and Norton D. Zinder. Joining them are Professors William C. Agosta, Zanvil A. Cohn, Lyman C. Craig, Frank H. Field, Jules Hirsch, Peter R. Marler, and George A. Miller.

The 22 colleges and universities to be visited—an increase of 10 over the last year—are: Albion, Amherst, Carleton, Colorado, Grinnell, Haverford, Hiram, Hope, Howard, Kenyon, Lawrence, Lincoln, Macalester, Morgan State, Mount Holyoke, Oberlin, Reed, Smith, Swarthmore, Tuskegee, Vassar, and Williams.

## Performing Patients and Staff, and a Piñata, Are Highlights of Hospital Christmas Party



Party performers (left to right): Linda Snyder, Winifred Berg, Miriam Losh, Charles Davis, George Hill, Dewitt Harrison.

Songs, dances, and a farcical skit, "The Healing of Mae West," enlivened the Hospital's annual Christmas party, held on December 19 in the third floor Solarium. Patients and staff gustily performed such roles as the inimitable Mae ("Too much of a good thing can be wonderful!"), Doctor Doodlebug, Orderly Confusion, and Nurse Strong-arm. Dietitian Michele Dorfman, the Hospital's star tap dancer, and Recreational Therapist Winifred Berg, soft-shoed their way through "Tea for Two," to the accompaniment of Dr. Peter N. Gillette's tinkling piano. Dietitian Teresita Albarracin performed a

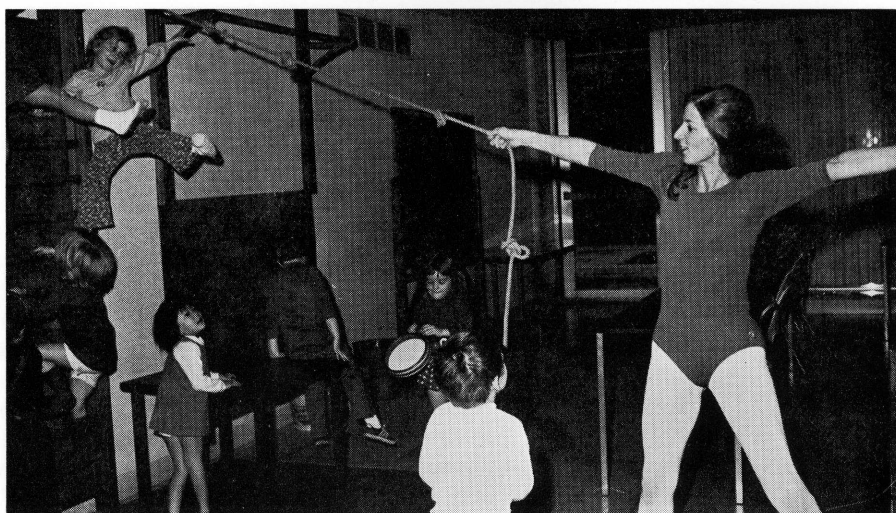
"Dance of Lights." Singers included Orderly Dewitt Harrison, Orderly Elie Blaise (in French), Porter Wilfred Forbes, accompanying himself on the guitar, Dietitian Delores Johnson, and Dietitian Cheryl Corbin. Miriam Losh, a patient, read a Christmas prayer written by her husband. Miss Corbin, at the piano, led the carol singing. The festivities, which were organized by Miss Berg and her co-therapist, Linda Snyder, were capped by a huge Mexican-style piñata made by a former patient and filled with presents contributed by the patients for each other.

## Running, Jumping, Leaping, Rolling

She leads them through a maze of brightly colored "hula" hoops, twisting and crawling "like caterpillars." She urges them up the gym ladder from which they hang by a hand and a leg, stretching their bodies into space "like flying angels." (She's close by to catch any falling angels.) She asks them to explore the ways they can balance on their hands, and, still talking, vaults a small table and executes a cartwheel.

She is Kathryn Buchanan, wife of Postdoctoral Fellow Thomas M. Buchanan, mother of Mark, 5, and Caroline, 3. Her imagery is rich and she is as energetic as her pupils (ranging in age from 2½ to 8) who jump, roll, scamper, climb, and leap around the Graduate Students Lounge, in age-graded classes, on Tuesday and Thursday afternoons. For the children, it's nice, sweaty fun. For Mrs. Buchanan, with a B.S. and M.S. in physical edu-

cation from the University of Washington and several years of experience as a public school gym teacher, it is the serious business of movement education. (Her background has also in-



## McCarty Heads Health Research Council

Professor Maclyn McCarty, vice president and physician-in-chief, has assumed the post of chairman of the Health Research Council of the City of New York for a four-year term. The organization, funded by the city, supports research programs and was responsible for the financing of the first methadone research work at the University. On November 29, the council presented a seminar at which the goals and present status of the Center for the Prevention of Premature Arteriosclerosis at The Rockefeller University Hospital were described by Professor Edward H. Ahrens, Jr.

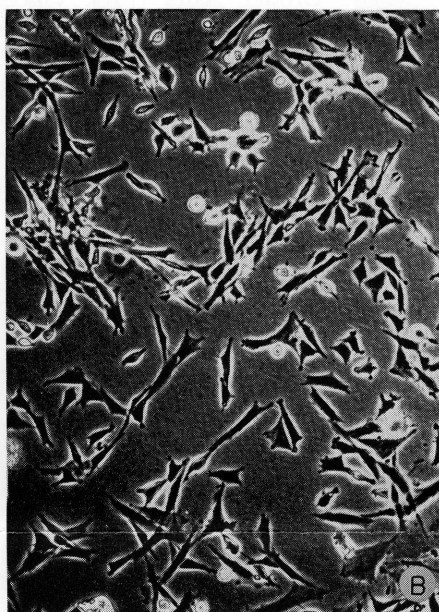
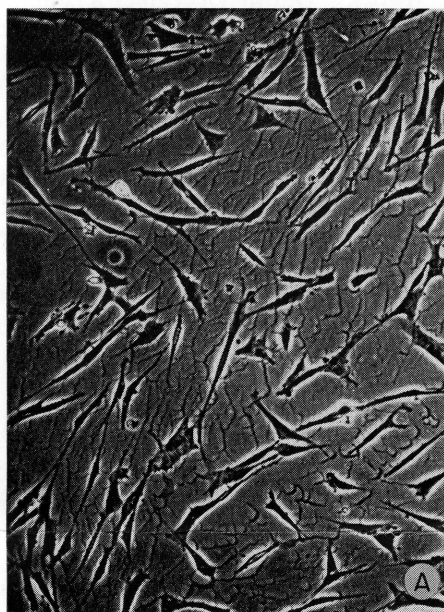
cluded a year of graduate work at England's Chelsea College of Physical Education and a summer of gymnastics at the University of Oslo, Norway. She currently takes modern dance classes with Alvin Ailey and Alwin Nikolais.) As she puts it, "Research has shown that while most children eventually do develop rudimentary forms of fundamental movement patterns, if they are not developed at the time in which they appear naturally, it is possible they will never achieve the mature forms. I am interested in designing movement experiences in which they can use these patterns at varying speeds, levels, and tensions, and experiment on their own with new combinations of fundamental activities."

Mrs. Buchanan's campus classes, in 10-session series, are open to all Rockefeller children. The fee is small, most of which up to now she's been spending on equipment.

*Young "flying angels," below, get a little help from Kathryn Buchanan.*



## Reich Lab Reports on Research Findings



The microscopic photographs above illustrate a biochemical difference, recently identified by members of the laboratory of Professor Edward Reich, between normal cells and cancer cells. The photo on the left shows fibrin (wavy lines) in the presence of normal cells. In the photo on the right, the fibrin is no longer visible. It has been "digested" by a culture of malignant cells. The cells are from sarcomas, virus-induced tumors of the connective tissue. These cancer cells release a factor which is not produced by normal cells. This factor interacts with a protein in the blood plasma of animals and man to produce an enzyme that degrades proteins such as fibrin, which is formed in the body during blood clotting.

The degradation of fibrin may have several consequences. For example, it could provide nutrients required for the rapid cell growth of malignancies. In addition, fibrin is essential for blood clotting and wound healing. By interfering with these processes, the degradation of fibrin could modify blood circulation to favor the growth and spread of the tumor.

The identification of the enzyme in a variety of species, including man, was the result of several years of work

by Dr. Reich, Assistant Professors James P. Quigley and Daniel B. Rifkin, Postdoctoral Fellows Annette Tobia and Liliana Ossowski, and Graduate Fellow Jay C. Unkeless. It was reported by Dr. Reich at a research colloquium at the University on December 13. Detailed descriptions appear in two papers in the January issue of *The Journal of Experimental Medicine*.

What are the implications of these findings? According to the research group, they may provide, in time, the basis for designing diagnostic tests that could help in detecting and following the course of a cancer. Also, the newly discovered enzyme may be a useful target for chemotherapy, since drugs can be produced to inhibit its activity.

One species studied in some detail by the group is the chicken, from which sarcoma viruses were first isolated by Peyton Rous at Rockefeller. Although chickens produce both the cell factor and the serum factor, the serum of chickens that have been exposed to Rous sarcoma virus contains, in addition, an inhibitor of the fibrinolytic enzyme. The inhibitor prevents some of the cellular changes that accompany the conversion to malignancy. It is possible that this inhibitor is part of the body's mechanism for control of growth; it might, therefore, be important in natural resistance to cancer. Future work will be aimed at defining the nature of the inhibitor and the mechanism by which it produces its effects.

The first to observe the fibrinolytic activity of tumors was Professor Albert Fischer of Copenhagen in 1925. However, he did not determine the mechanism by which tumors degraded fibrin.

## BRIEFS

Professor **Fritz Lipmann** received an honorary doctor of medicine degree from the University of Copenhagen on November 23. While in Denmark, he was a guest of the Carlsberg Foundation. From 1933-39 Dr. Lipmann worked at the Biological Institute of the Carlsberg Foundation.

Professor **Gerald M. Edelman** was one of 29 of the country's leading scientists elected fellows of The New York Academy of Sciences at its annual meeting held on December 6.

**President Seitz** has been elected to the board of trustees of the Woodrow Wilson National Fellowship Foundation. Since 1945, more than 18,000 college seniors in the United States and Canada have been awarded Woodrow Wilson Fellowships for their first year of graduate study in the liberal arts.

Dr. **C. E. Sunderlin**, University vice president and secretary, participated last month in the selection of Rhodes Scholars both as a member of the New York State Committee on Rhodes Scholars and as secretary to and a member of the Middle Atlantic States District Committee. On December 15-16, the district committee met at the University and made a final selection of four scholarship recipients from a list of 11 candidates submitted by committees representing the six Middle Atlantic states and the District of Columbia.



*Holiday cheer defied December's gloomy weather. Standing before a resplendent tree, President and Mrs. Seitz welcomed members of the University community to the annual Christmas party held December 13 in the new 17th floor Tower dining room.*

### SOCIAL SECURITY RISE

The payroll office reports that, effective January 1, 1973, the social security rate was increased to 5.85 percent for all earnings up to \$10,800. This amount is deducted from paychecks. An equal amount must be paid by the University.



## Top of the Tower Opens

The new dining area on the 17th floor of the Tower Building opened for lunch on December 8. Service is buffet style, Mondays through Fridays, from 11:30 A.M. to 2:00 P.M. The lunch includes soup, a choice of sandwich and salad or a cold salad platter, plus dessert and beverage. The price is \$1.50, payable by student scrip or by coupon from books of 10 which may be purchased in the Accounting Office. Table reservations, for noon or 1 P.M., may be made by calling Alzatta Fogg, 1073, between 10 A.M. and 3 P.M. or 1258 at other times. (There is no change in the regular schedule for the 2nd floor cafeteria.)

The overall plan of the new dining facility, which includes one large and two smaller dining rooms and a spacious lounge, was conceived by designer Calvert Coggeshall to be flexible enough to be adapted to a variety of University functions. The contemporary decor blends dark and blond woods, dining chairs with bentwood arms and caned backs, "director's" chairs, and couches, chair cushions, and banquettes upholstered in deep blue. Shallow terra-cotta trays, the kind usually found under flower pots, serve as ashtrays. The art includes mostly contemporary paintings and sculpture, interspersed with a few traditional portraits, Audubon bird prints, and photographs. On a wall near the elevators is an original architect's drawing for a geological museum, circa 1870. The selection was made by Dorothy Miller, art consultant to the University. New acquisitions were purchased through the David Rockefeller Art Fund.

Dominating the entire scene is the East Side skyline, viewable through large picture windows to the north and south. Behind the scenes, those who work in the gleaming stainless steel kitchens enjoy the same superb view.

## New Trustee

Brooke Astor (Mrs. Vincent Astor), president and trustee of the Vincent Astor Foundation, has been elected to the University's board of trustees.

Mrs. Astor, who has participated in a wide range of civic and cultural activities, has received numerous awards for her support of projects in such varied fields as urban renewal, low-income housing, the arts, recreation, and education. She is also the author of two books—*Patchwork Child* and *The Bluebird Is at Home*—and for eight years was feature editor of *House and Garden*.

In addition to being head of the Astor Foundation, one of the aims of



which is to aid children whose circumstances deny them opportunities to achieve their full potential, Mrs. Astor works with the Astor Home for Disturbed Children and The New York Foundling Home. She is also a member of the Art Commission of New York and of the International Council

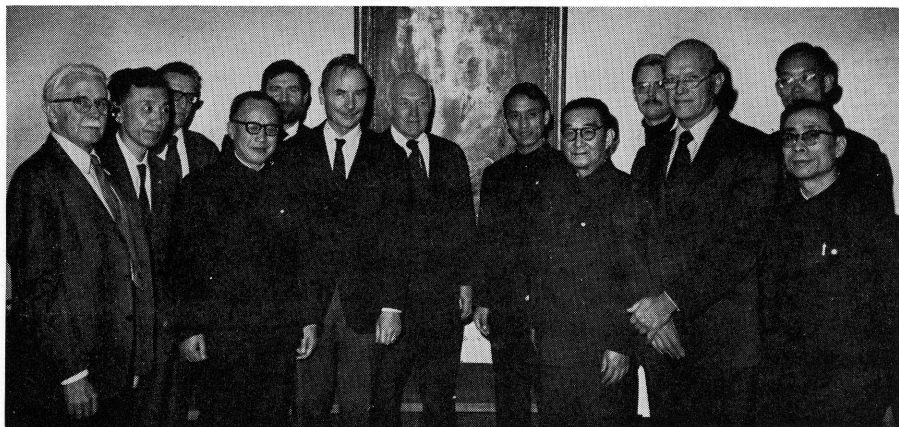
## Aid for Indochina

During December a committee of volunteers from the campus community sponsored a Medical Aid for Indochina week. A benefit concert of chamber music was held on December 7 performed by Richard Goode, Sheryl Swint, Marilyn Dubow, and Michael Rudiakov. At the concert Professor Peter Wolff of the Harvard Medical School reported on his personal observations of medical care in Vietnam. Contributions were also received during the week in the Tower lobby. Additional contributions may still be sent to Professor Philip Siekevitz with checks made payable to the Medical Committee for Aid to Indochina, Inc., or to the American Friends Service Committee.

of the Museum of Modern Art and is a trustee of the Metropolitan Museum of Art, the New York Public Library, the New York Zoological Society, New York University, and the Institute of Fine Arts at New York University.

In 1971, she received an honorary doctor of laws degree from Columbia University. Mrs. Astor also has received the Honor Award of the U.S. Department of Housing and Urban Development, the Michael Friedsam Medal of the Architectural League of New York, a Spirit of Achievement Award from the Greater New York Chapter of the Albert Einstein College of Medicine, and the Albert Gallatin Award for "outstanding contribution to society" from N.Y.U.

## CHINESE SCIENTISTS VISIT ROCKEFELLER



On November 30 a scientific delegation from the People's Republic of China visited the University. Like the Chinese physicians who visited earlier in the fall, the group was touring health and science institutions in this country as guests of the National Academy of Sciences. After a brief greeting and orientation by President Seitz, the delegation heard informal talks by a number of University scientists concerning the work of individual labs. Pictured with the visitors above are, left to right: H. Keffer Hartline, Donald R. Griffin, Peter R. Marler, Floyd Ratliff, Neal E. Miller, Bruce S. McEwen, and Carl Pfaffmann.